

IN THE ABSTRACT OF THE DISCLOSURE

Please use the accompanying Abstract of the Disclosure, which is contained on a separate sheet of paper, as required by 37 C.F.R. §1.72(b), as the Abstract for the instant patent application.

ABSTRACT OF THE DISCLOSURE

An apparatus for determining the impedance (Z_{aw}) of a patient's respiratory tract, by measuring the alternating pressure (dp) in the region of the patient's mouth after producing an oscillating air pressure signal, includes a mouthpiece, an electroacoustic transducer having a mechanical oscillation system for generating the oscillating air pressure signal, a tube for connecting the electroacoustic transducer to the mouthpiece, a reference resistance for determining the reference impedance (Z_{ref}), and a computing device for calculating the impedance (Z_{aw}) of the respiratory tract on the basis of the reference impedance (Z_{ref}) of the reference resistance, the entire impedance (Z_{ges}) and the entire phase angle (Φ). The change in the deflection of the mechanical oscillation system on the electroacoustic transducer, caused by the alternating pressure (dp) of the breathing of the patient, can be measured in a contactless manner using at least one measuring device.